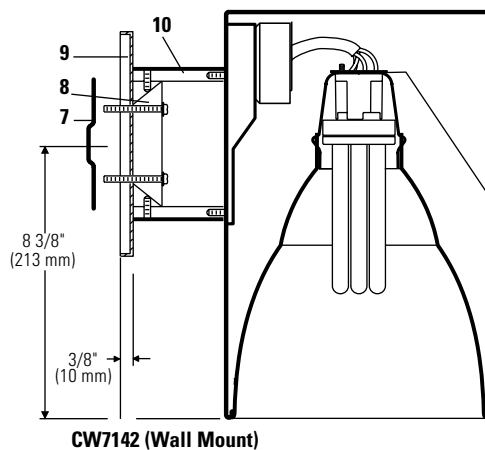
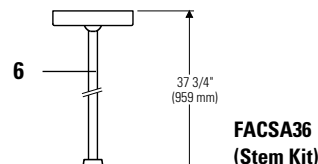
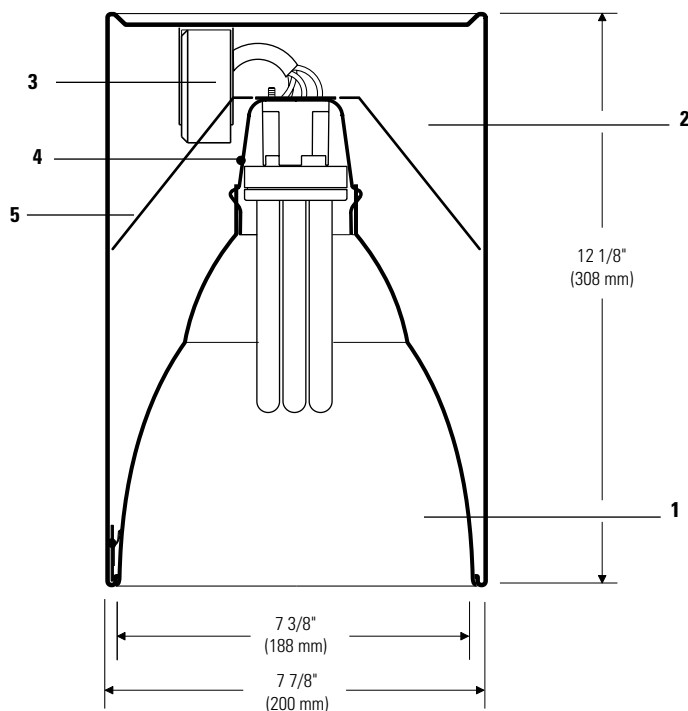




# Calculite® Compact Fluorescent Surface Cylinder **CS7142**

Page 1 of 2

7 3/8" Aperture Triple Tube (4-Pin) Ceiling & Wall Mount



## Complete Fixture Ceiling Mount

**CS7142VUCCL** Comfort Clear™ Reflector  
White Housing 120V - 277V

## Lamp

**26, 32 or 42W Triple Tube**  
4-Pin (Amalgam)

## Complete Fixture Wall Mount

**CW7142VUCCL** Comfort Clear™ Reflector  
White Housing 120V - 277V

## Lamp

**26, 32 or 42W Triple Tube**  
4-Pin (Amalgam)

## Features

- Reflector:** 16 ga. Alzak® aluminum, 50° visual cutoff to lamp and lamp image, medium distribution. Comfort Clear™ low iridescence finish.
- Housing:** One piece 16 ga. spun aluminum with returned bottom edge to seat reflector; no visible hardware. Matte white baked enamel finish.
- Ballast:** Mounted on support bracket, can be easily removed for service.
- Socket Bracket:** Snaps onto reflector neck to assure consistently correct optical alignment.
- Retaining Springs:** Precision-tooled steel friction springs secure reflector to mounting frame for quick, tool-less installation.
- Stem Kit:** Cat. No. **FA CSA36**: Provided with 1/2" dia. stem and 4 1/2" dia. canopy. Self-aligning swivel provides maximum 40° vertical adjustment. Installs over 4" octagonal outlet box. Stem can be cut to length on site. Matte white baked enamel finish.
- Crossbar:** Installs over 3" or 4" octagonal or rectangular outlet box.
- Cleat:** Cast aluminum; allows mounting to mullion or post without backplate.
- Backplate:** Die-cast aluminum; 6 1/4" high by 4" wide; matte white.
- Bracket:** Extruded aluminum; matte white finish. Secured to cleat by set screws.

## Electrical

**Note:** For ballast electrical data and latest lamp/ballast compatibility refer to "Ballast" specification sheet for complete electrical data.

UL listed for 90°C supply conductors.

## Options and Accessories

**Other Reflector and Housing Finishes** Consult factory  
Fuse (Slow Blow) Add Suffix **F**

## Labels

UL listed for damp locations, I.B.E.W.

Alzak® is a registered trademark of ALCOA.

**US Patent Pending.**

## Job Information

## Type:

**Job Name:**

**Cat. No.:**

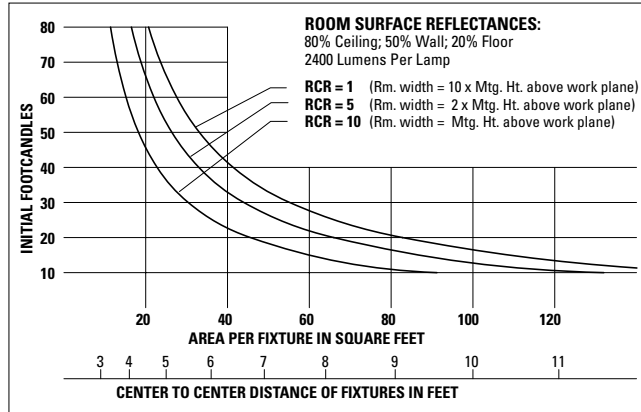
**Lamp(s):**

**Notes:**

**Lightolier** a Genlyte Thomas Company [www.lightolier.com](http://www.lightolier.com)  
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710  
We reserve the right to change details of design, materials and finish.  
© 2002 Genlyte Thomas Group LLC (Lightolier Division) • A0902

**LIGHTOLIER®**

## Quick Calculator



This quick Calculator chart determines the number and spacing of 1 ft.-32W PL-T units with Comfort Clear™ reflector for any level of illumination. Conversion factor: 1 ft. 26W PL-T with Comfort Clear reflector for any level of illumination. reflector, F.C. x 0.8.

## Spacing Ratio = 1.1

REPORT NO: LRL 499-9F2

REPORT PREPARED FOR: LIGHTOLIER

REPORT BY: LIGHTING RESEARCH LABORATORY, INC.

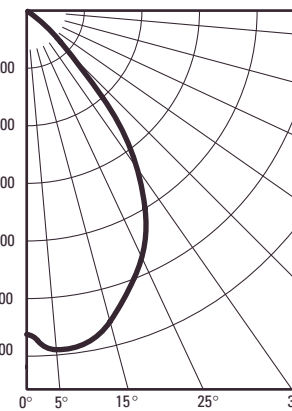
DESCRIP: 7.5" DIA. RECESSED DOWNLIGHT WITH COMFORT CLEAR™ REFLECTOR  
LAMPS: 1PL-T 32W LUMENS=2400

## CANDLEPOWER SUMMARY

ANGLE	AVERAGE CP	LUMENS
180	0	0
175	0	0
165	0	0
155	0	0
145	0	0
135	0	0
125	0	0
115	0	0
105	0	0
95	0	0
85	1	1
75	2	2
65	3	3
55	11	10
45	226	175
35	678	426
25	933	432
15	1117	317
5	1179	113
0	1126	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	861	35.9	58.3
0-40	1287	53.6	87.1
0-60	1472	61.3	99.6
0-90	1478	61.6	100.0
40-90	191	8.0	12.9
60-90	6	0.3	0.4
90-120	0	0.0	0.0
90-150	0	0.0	0.0
90-180	0	0.0	0.0
0-180	1478	61.6	100.00



**\*\*Efficiency=61.6%\*\***

TESTED ACCORDING TO IES PROCEDURES. TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST LUMINOUS OPENING OF LUMINAIRE.

## Coefficients of Utilization

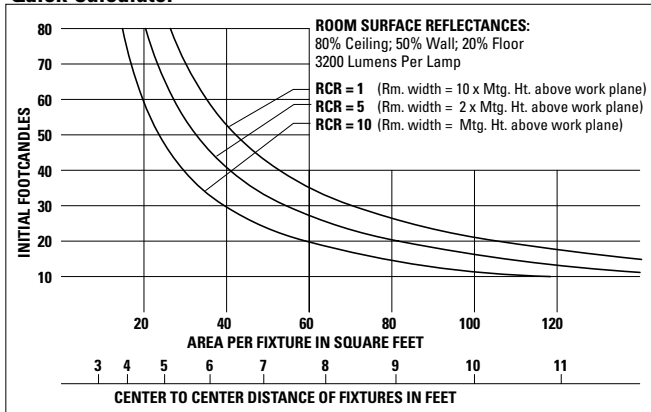
EFFECTIVE CEILING CAVITY REFLECTANCE

		WALL REFLECTANCE																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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		50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																																																																																																																																																																																																																																																																																																																																																																																																																									
ROOM CAVITY RATIO	1	.69	.67	.66	.67	.66	.65	.65	.64	.63	.63	.62	.61	.61	.60	.59	.58	.57	.56	.56	.55	.54	.53	.52	.51	.50	.49	.48	.47	.46	.45	.44	.43	.42	.41	.40	.39	.38	.37	.36	.35	.34	.33	.32	.31	.30	.29	.28	.27	.26	.25	.24	.23	.22	.21	.20	.19	.18	.17	.16	.15	.14	.13	.12	.11	.10	.09	.08	.07	.06	.05	.04	.03	.02	.01	.00																																																																																																																																																																																																																																																																																																																																																																													
	2	.65	.63	.61	.64	.62	.60	.62	.60	.58	.60	.58	.56	.58	.56	.54	.56	.54	.52	.54	.52	.50	.52	.50	.48	.50	.48	.46	.48	.46	.44	.46	.44	.42	.44	.42	.40	.42	.40	.38	.40	.38	.36	.38	.36	.34	.36	.34	.32	.34	.32	.30	.32	.30	.28	.30	.28	.26	.28	.26	.24	.26	.24	.22	.24	.22	.20	.22	.20	.18	.20	.18	.16	.18	.16	.14	.16	.14	.12	.14	.12	.10	.12	.10	.08	.10	.08	.06	.08	.06	.04	.06	.04	.02	.04	.02	.00																																																																																																																																																																																																																																																																																																																																																								
	3	.61	.59	.57	.61	.58	.56	.59	.57	.55	.58	.56	.54	.56	.54	.52	.54	.52	.50	.52	.50	.48	.50	.48	.46	.48	.46	.44	.46	.44	.42	.44	.42	.40	.42	.40	.38	.40	.38	.36	.38	.36	.34	.36	.34	.32	.34	.32	.30	.32	.30	.28	.30	.28	.26	.28	.26	.24	.26	.24	.22	.24	.22	.20	.22	.20	.18	.20	.18	.16	.18	.16	.14	.16	.14	.12	.14	.12	.10	.12	.10	.08	.10	.08	.06	.08	.06	.04	.06	.04	.02	.04	.02	.00																																																																																																																																																																																																																																																																																																																																																											
	4	.58	.55	.53	.57	.54	.52	.56	.54	.52	.55	.53	.51	.54	.52	.50	.52	.50	.48	.50	.48	.46	.48	.46	.44	.46	.44	.42	.44	.42	.40	.42	.40	.38	.40	.38	.36	.38	.36	.34	.36	.34	.32	.34	.32	.30	.32	.30	.28	.30	.28	.26	.28	.26	.24	.26	.24	.22	.24	.22	.20	.22	.20	.18	.20	.18	.16	.18	.16	.14	.16	.14	.12	.14	.12	.10	.12	.10	.08	.10	.08	.06	.08	.06	.04	.06	.04	.02	.04	.02	.00																																																																																																																																																																																																																																																																																																																																																														
	5	.55	.51	.49	.54	.51	.49	.53	.50	.49	.52	.50	.48	.51	.49	.47	.51	.49	.47	.50	.48	.46	.48	.46	.44	.46	.44	.42	.44	.42	.40	.42	.40	.38	.40	.38	.36	.38	.36	.34	.36	.34	.32	.34	.32	.30	.32	.30	.28	.30	.28	.26	.28	.26	.24	.26	.24	.22	.24	.22	.20	.22	.20	.18	.20	.18	.16	.18	.16	.14	.16	.14	.12	.14	.12	.10	.12	.10	.08	.10	.08	.06	.08	.06	.04	.06	.04	.02	.04	.02	.00																																																																																																																																																																																																																																																																																																																																																														
	6	.52	.48	.46	.51	.48	.46	.50	.48	.46	.50	.47	.45	.49	.47	.45	.49	.47	.45	.48	.46	.44	.46	.44	.42	.46	.44	.42	.44	.42	.40	.42	.40	.38	.40	.38	.36	.38	.36	.34	.36	.34	.32	.34	.32	.30	.32	.30	.28	.30	.28	.26	.28	.26	.24	.26	.24	.22	.24	.22	.20	.22	.20	.18	.20	.18	.16	.18	.16	.14	.16	.14	.12	.14	.12	.10	.12	.10	.08	.10	.08	.06	.08	.06	.04	.06	.04	.02	.04	.02	.00																																																																																																																																																																																																																																																																																																																																																														
	7	.49	.45	.43	.46	.45	.43	.48	.45	.43	.47	.44	.43	.46	.44	.42	.46	.44	.42	.45	.43	.41	.45	.43	.41	.44	.42	.40	.42	.40	.38	.40	.38	.36	.38	.36	.34	.36	.34	.32	.34	.32	.30	.32	.30	.28	.30	.28	.26	.28	.26	.24	.26	.24	.22	.24	.22	.20	.22	.20	.18	.20	.18	.16	.18	.16	.14	.16	.14	.12	.14	.12	.10	.12	.10	.08	.10	.08	.06	.08	.06	.04	.06	.04	.02	.04	.02	.00																																																																																																																																																																																																																																																																																																																																																																	
	8	.46	.42	.40	.44	.42	.40	.45	.42	.40	.44	.42	.40	.44	.42	.40	.44	.42	.40	.43	.41	.39	.43	.41	.39	.42	.40	.38	.40	.38	.36	.40	.38	.36	.38	.36	.34	.36	.34	.32	.34	.32	.30	.32	.30	.28	.30	.28	.26	.28	.26	.24	.26	.24	.22	.24	.22	.20	.22	.20	.18	.20	.18	.16	.18	.16	.14	.16	.14	.12	.14	.12	.10	.12	.10	.08	.10	.08	.06	.08	.06	.04	.06	.04	.02	.04	.02	.00																																																																																																																																																																																																																																																																																																																																																																	
	9	.43	.40	.37	.43	.39	.37	.42	.39	.37	.42	.39	.37	.41	.39	.37	.41	.39	.37	.40	.38	.36	.40	.38	.36	.39	.37	.35	.37	.35	.33	.39	.37	.35	.37	.35	.33	.39	.37	.35	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37	.35	.33	.39	.37

20% FLOOR CAVITY REFLECTANCE

## 7 3/8" Aperture Triple Tube (4-Pin) Ceiling & Wall Mount

## Quick Calculator



This quick Calculator chart determines the number and spacing of 1 ft.-42W PL-T units with Comfort Clear™ reflector for any level of illumination.

## Spacing Ratio

REPORT PREPARED FOR: LIGHTOLIER

REPORT NO: LRL 499-9E

REPORT BY: LIGHTING RESEARCH LABORATORY, INC.

DESCRIP: 7.5" DIA. x 11 HT RECESSED DOWNLIGHT WITH COMFORT CLEAR™ REFLECTOR. LAMPS: 1PLT 42W LUMENS=3200

## CANDLEPOWER SUMMARY

ANGLE	AVERAGE CP	LUMENS
180	0	0
175	0	0
165	0	0
155	0	0
145	0	0
135	0	0
125	0	0
115	0	0
105	0	0
95	0	0
85	2	2
75	4	4
65	5	5
55	16	14
45	334	258
35	797	501
25	1178	545
15	1504	426
5	1585	151
0	1518	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	1123	35.1	58.9
0-40	1623	50.7	85.1
0-60	1896	59.3	99.4
0-90	1908	59.6	100.0
40-90	284	8.9	14.9
60-90	12	0.4	0.6
90-120	0	0.0	0.0
90-150	0	0.0	0.0
90-180	0	0.0	0.0
0-180	1908	59.6	100.00

**\*\*Efficiency=59.6%\*\***

May 14, 1999

## Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

		80			70			50			30			10			
		WALL REFLECTANCE															
		50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
ROOM CAVITY RATIO	1	.66	.65	.64	.65	.64	.63	.63	.62	.61	.60	.60	.59	.58	.58	.57	.56
	2	.62	.60	.58	.61	.59	.57	.59	.58	.56	.57	.56	.55	.56	.55	.54	.53
	3	.58	.55	.53	.57	.55	.53	.56	.54	.52	.54	.53	.51	.53	.52	.50	.50
	4	.55	.52	.49	.54	.51	.49	.53	.50	.48	.52	.50	.48	.51	.49	.47	.46
	5	.51	.48	.46	.51	.48	.45	.50	.47	.45	.49	.46	.45	.48	.46	.44	.43
	6	.48	.45	.42	.48	.45	.42	.47	.44	.42	.46	.44	.42	.45	.43	.41	.41
	7	.45	.42	.39	.45	.41	.39	.44	.41	.39	.43	.41	.39	.43	.40	.38	.38
	8	.42	.39	.36	.42	.38	.36	.41	.38	.36	.40	.38	.36	.40	.37	.36	.35
	9	.39	.36	.33	.39	.35	.33	.38	.35	.33	.38	.35	.33	.37	.35	.33	.32
	10	.37	.33	.31	.36	.33	.31	.36	.33	.31	.35	.32	.30	.35	.32	.30	.30